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(71) Applicant (*for all designated States except US*): AKZO NOBEL N.V. [NL/NL]; Velperweg 76, NL-6824 BM Arnhem (NL).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): HENSEN, Selma, Marianne [NL/NL]; Generaal Gavinstraat 3, NL-6585 WL Moök (NL). NUIJTEN, Petrus, Johannes, Maria [NL/NL]; Radioweg 1, NL-5836 CD Sambeek (NL).

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(54) Title: STREPTOCOCCUS UBERIS PROTEIN, NUCLEIC ACID SEQUENCE ENCODING THE SAME AND ITS USE IN A MASTITIS VACCINE

(57) Abstract: The present invention relates to nucleic acid sequences encoding a 22.5 kD *Streptococcus uberis* protein and to parts of such nucleic acid sequences that encode an immunogenic fragment of such proteins, and to DNA fragments, recombinant DNA molecules, live recombinant carriers and host cells comprising such nucleic acid sequences or such parts thereof. The invention also relates to a 22.5 kD *Streptococcus uberis* protein and immunogenic parts thereof encoded by such sequences. Furthermore, the present invention relates to vaccines comprising such nucleic acid sequences and parts thereof, DNA fragments, recombinant DNA molecules, live recombinant carriers and host cells comprising such nucleic acid sequences or such parts thereof, proteins or immunogenic parts thereof and antibodies against such proteins or immunogenic parts thereof. Also, the invention relates to the use of said proteins in vaccines and for the manufacture of vaccines. Moreover, the invention relates to the use of said nucleic acid sequences, proteins or antibodies for diagnostic or vaccination purposes. Finally the invention relates to diagnostic kits comprising such a nucleic acid, protein or antibodies against such protein.